

**MSDS for: KL8600A****Revised: 30-Aug-2004****SECTION 1:**

PRODUCT IDENTIFIER: KL-8600A KLENKS ALMOND TUB, TILE, & SINK PART A  
DATE OF PREPARATION: AUGUST 30, 2004  
PRODUCT USE: PROTECTIVE COATING

MANUFACTURED BY: MACCO ADHESIVES  
925 EUCLID AVENUE  
CLEVELAND, OHIO 44115, U.S.A.

ICI PAINTS (CANADA)  
8200 KEELE STREET  
CONCORD, ONTARIO L4K 2A5, CANADA

EMERGENCY AND MSDS TELEPHONE NUMBER: 1-800-545-2643

MSDS PREPARED BY: PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT  
ICI PAINTS NORTH AMERICA

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

<b>INGREDIENT</b>		<b>WT. %</b>
CHEMICAL NAME:	2-PENTANONE, 4-METHYL-	5-10
COMMON NAME:	METHYL ISOBUTYL KETONE	
CAS NUMBER:	108-10-1	
CHEMICAL NAME:	2-PROPANOL, 1-METHOXY-, ACETATE	5-10
COMMON NAME:	PROPYLENE GLYCOL MONOMETHYL ETHER	
CAS NUMBER:	108-65-6	
CHEMICAL NAME:	BENZENE, DIMETHYL-	1-5
COMMON NAME:	XYLENE	
CAS NUMBER:	1330-20-7	
CHEMICAL NAME:	TITANIUM OXIDE	30-40
COMMON NAME:	TITANIUM DIOXIDE	
CAS NUMBER:	13463-67-7	
CHEMICAL NAME:	ALUMINUM HYDROXIDE	1-5
COMMON NAME:	ALUMINUM HYDROXIDE	
CAS NUMBER:	21645-51-2	
CHEMICAL NAME:	PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 2,2'-((1-METHYLETHYLIDENE)BIS (4,1-PHENYLENEOXYMETHYLENE))BIS(OXIRANE)	20-30
COMMON NAME:	EPOXY RESIN	
CAS NUMBER:	25036-25-3	
CHEMICAL NAME:	FORMALDEHYDE	0.01-0.1
COMMON NAME:	FORMALDEHYDE	
CAS NUMBER:	50-00-0	

CHEMICAL NAME:	1-BUTANOL, 2-METHYL-, ACETATE	1-5
COMMON NAME:	2-METHYLBUTYL ETHANOATE	
CAS NUMBER:	624-41-9	
 CHEMICAL NAME:	 ACETIC ACID, PENTYL ESTER	 5-10
COMMON NAME:	N-AMYL ACETATE	
CAS NUMBER:	628-63-7	
 CHEMICAL NAME:	 SILICA	 1-5
COMMON NAME:	AMORPHOUS SILICA	
CAS NUMBER:	7631-86-9	

### SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE: INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION

#### EFFECTS OF OVEREXPOSURE

INHALATION:	IRRITATION OF RESPIRATORY TRACT. PROLONGED INHALATION MAY LEAD TO LOSS OF APPETITE, MUCOUS MEMBRANE IRRITATION, FATIGUE, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, CHEST PAIN, BLURRED VISION, COUGHING, DIFFICULTY WITH SPEECH, CENTRAL NERVOUS SYSTEM DEPRESSION, ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, ALLERGIC RESPONSE, TREMORS, LIVER DAMAGE, KIDNEY DAMAGE, PULMONARY EDEMA, LOSS OF CONSCIOUSNESS, CYANOSIS, RESPIRATORY FAILURE, ASPHYXIATION, DEATH.
SKIN CONTACT:	IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING, BLISTERING, SEVERE SKIN IRRITATION. POSSIBLE SENSITIZATION TO SKIN. SKIN CONTACT MAY RESULT IN DERMAL ABSORPTION OF COMPONENT(S) OF THIS PRODUCT WHICH MAY CAUSE DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS.
EYE CONTACT:	IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, BLURRED VISION, TEARING OF EYES, REDNESS OF EYES, SEVERE EYE IRRITATION, CORNEAL INJURY.
INGESTION:	INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, MOUTH AND THROAT IRRITATION, DROWSINESS, HEADACHE, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, CENTRAL NERVOUS SYSTEM DEPRESSION, INTOXICATION, LIVER DAMAGE, KIDNEY DAMAGE, PULMONARY EDEMA.

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

EYE, SKIN, RESPIRATORY DISORDERS, KIDNEY DISORDERS, LIVER DISORDERS

#### **SECTION 4: FIRST-AID MEASURES**

**INHALATION:** REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY. REMOVE TO FRESH AIR IF INHALATION CAUSES EYE WATERING, HEADACHES, DIZZINESS, OR OTHER DISCOMFORT.

**SKIN CONTACT:** WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT REMAINS, GENTLY RUB PETROLEUM JELLY, VEGETABLE OR MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE NEEDED. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE.

**EYE CONTACT:** FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.

**INGESTION:** IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

**FLASH POINT (SETA):** 83 F./ 28 C.      **LOWER EXPLOSIVE LIMIT:** 1.4 %  
**UPPER EXPLOSIVE LIMIT:** 11.2 %

**FIRE EXTINGUISHING MEDIA:** DRY CHEMICAL OR FOAM. WATER FOG, CARBON DIOXIDE

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE. VAPORS MAY IGNITE EXPLOSIVELY AT AMBIENT TEMPERATURES. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK. VAPORS CAN FORM EXPLOSIVE MIXTURES IN AIR AT ELEVATED TEMPERATURES. CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE. MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

#### **FIRE FIGHTING PROCEDURES**

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS. FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS. SELF-CONTAINED BREATHING APPARATUS RECOMMENDED.

#### **HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS**

CARBON MONOXIDE, CARBON DIOXIDE, ACRID FUMES, ALDEHYDES

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS. ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. USE NON-SPARKING TOOLS. EVACUATE ALL UNNECESSARY PERSONNEL. PLACE COLLECTED MATERIAL IN PROPER CONTAINER. COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.

LARGE SPILLS: SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.

SMALL SPILLS: USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

## SECTION 7: HANDLING AND STORAGE

### HANDLING AND STORAGE

STORE BELOW 80F. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

### OTHER PRECAUTIONS

USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME:	METHYL ISOBUTYL KETONE	
CAS NUMBER:	108-10-1	
ACGIH(TWA):	50 PPM	OSHA(TWA): 100PPM
ACGIH(STEL):	75 PPM	
COMMON NAME:	XYLENE	
CAS NUMBER:	1330-20-7	
ACGIH(TWA):	100 PPM	OSHA(TWA): 100 PPM
ACGIH(STEL):	150 PPM	
COMMON NAME:	TITANIUM DIOXIDE	
CAS NUMBER:	13463-67-7	
ACGIH(TWA):	10 MG/M3	OSHA(TWA): 10 MG/M3
COMMON NAME:	ALUMINUM HYDROXIDE	
CAS NUMBER:	21645-51-2	
ACGIH(TWA):	10 MG/M3	OSHA(TWA): 5 MG/M3

COMMON NAME:	FORMALDEHYDE		
CAS NUMBER:	50-00-0		
OSHA(TWA):	0.75 PPM	OSHA(STEL):	2 PPM
ACGIH(STEL):	C 0.3PPM		
COMMON NAME:	N-AMYL ACETATE		
CAS NUMBER:	628-63-7		
ACGIH(TWA):	100PPM	OSHA(TWA):	100PPM
COMMON NAME:	AMORPHOUS SILICA		
CAS NUMBER:	7631-86-9		
ACGIH(TWA):	10 MG/M3	OSHA(TWA):	6 MG/M3

#### RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

#### VENTILATION

PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS. USE EXPLOSION-PROOF EQUIPMENT. USE NON-SPARKING EQUIPMENT.

#### PERSONAL PROTECTIVE EQUIPMENT

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES,  
IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	1.476
BOILING RANGE (F/C):	244-295/118-146	WEIGHT PER GALLON:	12.29/ 14.76 IMP
APPEARANCE:	TAN	%VOLATILE BY VOLUME:	47.23
PHYSICAL STATE:	LIQUID	SOLUBLE IN WATER:	N
PH:	NOT APPLICABLE		

### SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS: STABLE (SEE SECTION 5 FIRE FIGHTING MEASURES)

MATERIALS TO AVOID: OXIDIZERS, ACIDS, REDUCING AGENTS, BASES,  
ALDEHYDES, AMINES, NITRIC ACID, LEWIS ACIDS,  
MINERAL ACIDS, NITRATES

CONDITIONS TO AVOID: ELEVATED TEMPERATURES, CONTACT WITH  
OXIDIZING AGENT, SPARKS, OPEN FLAME, IGNITION  
SOURCES

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## SECTION 11: TOXICOLOGICAL INFORMATION

COMMON NAME: METHYL ISOBUTYL KETONE  
CAS NUMBER: 108-10-1  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: > 20.00 GM/KG SKN RBT  
LD50: 2080.00 MG/KG ORL RAT

COMMON NAME: PROPYLENE GLYCOL MONOMETHYL ETHER  
CAS NUMBER: 108-65-6  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: > 5.00 GM/KG SKN RBT  
LD50: 8532.00 MG/KG ORL RAT  
LC50: 4345.00 PPM IHL RAT

COMMON NAME: XYLENE  
CAS NUMBER: 1330-20-7  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: > 1700.00 MG/KG SKN RBT  
LD50: 4300.00 MG/KG ORL RAT  
LC50: 5000.00 PPM/4HRIHL RAT

COMMON NAME: TITANIUM DIOXIDE  
CAS NUMBER: 13463-67-7  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: 24.00 GM/KG ORL RAT  
LC50: 6820.00 MG/M3/4HR IHL RAT

COMMON NAME: ALUMINUM HYDROXIDE  
CAS NUMBER: 21645-51-2  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: EPOXY RESIN  
CAS NUMBER: 25036-25-3  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: > 2000.00 MG/KG SKN RBT  
LD50: > 2000.00 MG/KG ORL RAT

COMMON NAME: FORMALDEHYDE  
CAS NUMBER: 50-00-0  
CARCINOGENICITY LISTED BY: NTP YES B IARC YES 2A OSHA YES ACGIH YES A2  
LD50: 100.00 MG/KG ORL RAT  
LC50: 203.00 MG/M3 IHL PIG

COMMON NAME: 2-METHYLBUTYL ETHANOATE  
CAS NUMBER: 624-41-9  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: N-AMYL ACETATE  
CAS NUMBER: 628-63-7  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: > 17.50 GM/KG SKN RBT  
LD50: 7.40 GM/KG ORL RBT

COMMON NAME: AMORPHOUS SILICA  
CAS NUMBER: 7631-86-9  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

#### SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN.

NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO LIVER, KIDNEY, CENTRAL NERVOUS SYSTEM.

CARCINOGENICITY: CONTAINS FORMALDEHYDE, A POTENTIAL CANCER HAZARD. RATS EXPOSED TO FORMALDEHYDE VIA INHALATION DEVELOPED CANCER OF THE NASAL CAVITY. EVIDENCE IN HUMANS IS LIMITED (NASAL AND NASOPHARYNGEAL CANCER). FORMALDEHYDE IS LISTED AS A CARCINOGEN BY OSHA, PROBABLE HUMAN CARCINOGEN (GROUP 2A) BY IARC, AND ANTICIPATED HUMAN CARCINOGEN BY NTP. OVEREXPOSURE CAN CAUSE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION, AND SKIN AND RESPIRATORY SENSITIZATION.

REPRODUCTIVE EFFECTS: HIGH EXPOSURES TO XYLENE IN SOME ANIMAL STUDIES, OFTEN AT MATERNALLY TOXIC LEVELS, HAVE AFFECTED EMBRYO/FETAL DEVELOPMENT. THE SIGNIFICANCE OF THIS FINDING TO HUMANS IS NOT KNOWN.

MUTAGENICITY: NO MUTAGENIC EFFECTS ARE ANTICIPATED

TERATOGENICITY: NO TERATOGENIC EFFECTS ARE ANTICIPATED

#### SECTION 12: ECOLOGICAL INFORMATION

NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE.

#### SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. AVOID DISCHARGE TO NATURAL WATERS.

#### SECTION 14: TRANSPORT INFORMATION

DOT: PAINT, 3, UN1263, PGIII  
IMDG: PAINT, CLASS 3, UN1263, PGIII, LIMITED QUANTITY  
IATA: NOT AVAILABLE  
TDG: NOT AVAILABLE

**SECTION 15: REGULATORY INFORMATION**

	SARA 302	SARA 313	CERCLA 302.4	HAZ AIR POLLUTANT	MARINE POLTNT
CAS NUMBER: 108-10-1 COMMON NAME: METHYL ISOBUTYL KETONE	NO	YES	YES	YES	NO
CAS NUMBER: 1330-20-7 COMMON NAME: XYLENE	NO	YES	YES	YES	NO
CAS NUMBER: 50-00-0 COMMON NAME: FORMALDEHYDE	YES	YES	YES	YES	NO
CAS NUMBER: 628-63-7 COMMON NAME: N-AMYL ACETATE	NO	NO	YES	NO	NO

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

**SECTION 16: OTHER INFORMATION**

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS MATERIAL. COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200.



**MSDS for: KL8600 Part B****Revised: 30-Aug-2004****SECTION 1:**

PRODUCT IDENTIFIER: KL-8600 KLENK'S TUB, TILE, & SINK, 2-PART EPOXY PAINT,  
ALMOND, PART B  
DATE OF PREPARATION: AUGUST 30, 2004  
PRODUCT USE: PROTECTIVE COATING

MANUFACTURED BY: MACCO ADHESIVES  
925 EUCLID AVENUE  
CLEVELAND, OHIO 44115, U.S.A.  
  
ICI PAINTS (CANADA)  
8200 KEELE STREET  
CONCORD, ONTARIO L4K 2A5, CANADA

EMERGENCY AND MSDS TELEPHONE NUMBER: 1-800-545-2643

MSDS PREPARED BY: PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT  
ICI PAINTS NORTH AMERICA

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

<b>INGREDIENT</b>		<b>WT. %</b>
CHEMICAL NAME:	2-PENTANOL, 4 METHYL-	5-10
COMMON NAME:	METHYL ISOBUTYL CARBINOL	
CAS NUMBER:	108-11-2	
CHEMICAL NAME:	2-PROPANOL, 1-METHOXY-, ACETATE	1-5
COMMON NAME:	PROPYLENE GLYCOL MONOMETHYL ETHER	
CAS NUMBER:	108-65-6	
CHEMICAL NAME:	1,2,-ETHANEDIAMINE, N,N'-BIS(2-AMINOETHYL)-	1-5
COMMON NAME:	TRIETHYLENETETRAMINE	
CAS NUMBER:	112-24-3	
CHEMICAL NAME:	BENZENE, DIMETHYL-	10-20
COMMON NAME:	XYLENE	
CAS NUMBER:	1330-20-7	
CHEMICAL NAME:	PROPANOL, (2-METHOXYMETHYLETHOXY)-	1-5
COMMON NAME:	DPG MONOMETHYL ETHER	
CAS NUMBER:	34590-94-8	
CHEMICAL NAME:	FATTY ACIDS, C18-UNSATURATED, DIMERS, POLYMERS	20-30
	WITH TALL-OIL FATTY ACIDS AND	
	TRIETHYLENETETRAMINE	
COMMON NAME:	POLYAMIDE RESIN	10-20
CAS NUMBER:	68082-29-1	
CHEMICAL NAME:	1-BUTANOL	
COMMON NAME:	N-BUTANOL	10-20
CAS NUMBER:	71-36-3	

CHEMICAL NAME:	BENZENE	0.01-0.1
COMMON NAME:	BENZENE	
CAS NUMBER:	71-43-2	
CHEMICAL NAME:	STODDARD SOLVENT	20-30
COMMON NAME:	MINERAL SPIRITS	
CAS NUMBER:	8052-41-3	
CHEMICAL NAME:	BENZENE,1,2,4-TRIMETHYL-	0.1-1.0
COMMON NAME:	PSEUDOCUMENE	
CAS NUMBER:	95-63-6	

### SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE: INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION

#### EFFECTS OF OVEREXPOSURE

INHALATION:	IRRITATION OF RESPIRATORY TRACT. PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION, FATIGUE, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, ABDOMINAL PAIN, CHEST PAIN, BLURRED VISION, COUGHING, DIFFICULTY WITH SPEECH, APATHY, CENTRAL NERVOUS SYSTEM DEPRESSION, ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, TREMORS, SEVERE LUNG IRRITATION OR DAMAGE, LIVER DAMAGE, KIDNEY DAMAGE, LOSS OF CONSCIOUSNESS, RESPIRATORY FAILURE, ASPHYXIATION, DEATH. POSSIBLE SENSITIZATION TO RESPIRATORY TRACT.
SKIN CONTACT:	IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING, BLISTERING, SEVERE SKIN IRRITATION, SEVERE SKIN IRRITATION OR BURNS. POSSIBLE SENSITIZATION TO SKIN. SKIN CONTACT MAY RESULT IN DERMAL ABSORPTION OF COMPONENT(S) OF THIS PRODUCT WHICH MAY CAUSE DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, CENTRAL NERVOUS SYSTEM DEPRESSION.
EYE CONTACT:	IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, BLURRED VISION, TEARING OF EYES, REDNESS OF EYES, SEVERE EYE IRRITATION, SEVERE EYE IRRITATION OR BURNS, CORNEAL INJURY.
INGESTION:	INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, MOUTH AND THROAT IRRITATION, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, ABDOMINAL PAIN, VISUAL DISTURBANCES, APATHY, CENTRAL NERVOUS SYSTEM DEPRESSION, ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, BURNS OF THE MOUTH, THROAT, STOMACH, LIVER DAMAGE, KIDNEY DAMAGE, PULMONARY EDEMA, CONVULSIONS, LOSS OF CONSCIOUSNESS, RESPIRATORY FAILURE, DEATH.

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

EYE, SKIN, RESPIRATORY DISORDERS, LUNG DISORDERS,  
ASTHMA-LIKE CONDITIONS, LIVER DISORDERS

#### SECTION 4: FIRST-AID MEASURES

- INHALATION:** REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY.
- SKIN CONTACT:** WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT REMAINS, GENTLY RUB PETROLEUM JELLY, VEGETABLE OR MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE NEEDED. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE. DISPOSE OF CONTAMINATED LEATHER ITEMS, SUCH AS SHOES AND BELTS. IF IRRITATION OCCURS, CONSULT A PHYSICIAN.
- EYE CONTACT:** FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.
- INGESTION:** IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

#### SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT (SETA): 88 F./ 31 C.      LOWER EXPLOSIVE LIMIT: 1.4 %  
UPPER EXPLOSIVE LIMIT: 11.2 %

FIRE EXTINGUISHING MEDIA: DRY CHEMICAL OR FOAM, WATER FOG, CARBON DIOXIDE

#### UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE. VAPORS MAY IGNITE EXPLOSIVELY AT AMBIENT TEMPERATURES. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK. VAPORS CAN FORM EXPLOSIVE MIXTURES IN AIR AT ELEVATED TEMPERATURES. MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

#### FIRE FIGHTING PROCEDURES

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS. FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.

#### HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, AMMONIA,  
UNIDENTIFIED ORGANIC COMPOUNDS

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS. ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. USE NON-SPARKING TOOLS. EVACUATE ALL UNNECESSARY PERSONNEL. COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.

LARGE SPILLS: SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.

SMALL SPILLS: USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

## SECTION 7: HANDLING AND STORAGE

### HANDLING AND STORAGE

STORE BELOW 80F. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

### OTHER PRECAUTIONS

USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME:	METHYL ISOBUTYL CARBINOL		
CAS NUMBER:	108-11-2		
ACGIH(TWA):	SKIN 25 PPM	OSHA(TWA):	25 PPM
ACGIH(STEL):	40 PPM		
OSHA( SKIN):	SKIN	CEILING: SUPP REC STD.:NOT AVAILABLE	

COMMON NAME:	XYLENE		
CAS NUMBER:	1330-20-7		
ACGIH(TWA):	100 PPM	OSHA(TWA):	100 PPM
ACGIH(STEL):	150 PPM		

COMMON NAME:	DPG MONOMETHYL ETHER		
CAS NUMBER:	34590-94-8		
ACGIH(TWA):	SKIN 100 PPM	OSHA(TWA):	100PPM
ACGIH(STEL):	150PPM		
OSHA( SKIN):	SKIN	CEILING: SUPP REC STD.:NOT AVAILABLE	

COMMON NAME:	N-BUTANOL		
CAS NUMBER:	71-36-3		
ACGIH(TWA):	20 PPM	OSHA(TWA):	100PPM

COMMON NAME:	BENZENE		
CAS NUMBER:	71-43-2		
ACGIH(TWA):	SKIN 0.5 PPM	OSHA(TWA):	1 PPM
ACGIH(STEL):	2.5 PPM	OSHA(STEL):	5 PPM

COMMON NAME:	MINERAL SPIRITS		
CAS NUMBER:	8052-41-3		
ACGIH(TWA):	100 PPM	OSHA(TWA):	500 PPM

SKIN - DENOTES THAT ADDITIONAL EXPOSURE, OVER AND ABOVE AIRBORNE EXPOSURE, MAY RESULT FROM SKIN ABSORPTION.

#### RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

#### VENTILATION

PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS. USE EXPLOSION-PROOF EQUIPMENT. USE NON-SPARKING EQUIPMENT.

#### PERSONAL PROTECTIVE EQUIPMENT

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES,  
IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING, FACE SHIELD, APRON

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	0.861
BOILING RANGE (F/C):	212-400/100-204	WEIGHT PER GALLON:	7.17/ 8.61 IMP
APPEARANCE:	CLEAR	%VOLATILE BY VOLUME:	75.44
PHYSICAL STATE:	LIQUID	SOLUBLE IN WATER:	NOT AVAILABLE
PH:	NOT APPLICABLE		

### SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS: STABLE (SEE SECTION 5 FIRE FIGHTING MEASURES)

MATERIALS TO AVOID: OXIDIZERS, ACIDS, BASES, ALDEHYDES, KETONES,  
AMINES, NITRIC ACID, COMBUSTIBLE MATERIALS,  
MINERAL ACIDS

CONDITIONS TO AVOID: ELEVATED TEMPERATURES, CONTACT WITH  
OXIDIZING AGENT, STORAGE NEAR ACIDS, SPARKS,  
OPEN FLAME, IGNITION SOURCES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## SECTION 11: TOXICOLOGICAL INFORMATION

COMMON NAME: METHYL ISOBUTYL CARBINOL  
CAS NUMBER: 108-11-2  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: 2590.00 MG/KG ORL RAT  
LD50: 3.56 ML/KG SKN RBT

COMMON NAME: PROPYLENE GLYCOL MONOMETHYL ETHER  
CAS NUMBER: 108-65-6  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: > 5.00 GM/KG SKN RBT  
LD50: 8532.00 MG/KG ORL RAT  
LC50: 4345.00 PPM IHL RAT

COMMON NAME: TRIETHYLENETETRAMINE  
CAS NUMBER: 112-24-3  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: 2500.00 MG/KG ORL RAT  
LD50: 1600.00 MG/KG ORL MOU  
LD50: 805.00 MG/KG SKN RBT

COMMON NAME: XYLENE  
CAS NUMBER: 1330-20-7  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: > 1700.00 MG/KG SKN RBT  
LD50: 4300.00 MG/KG ORL RAT  
LC50: 5000.00 PPM/4HRIHL RAT

COMMON NAME: DPG MONOMETHYL ETHER  
CAS NUMBER: 34590-94-8  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: 5.40 ML/KG ORL RAT  
LD50: 10.00 ML/KG SKN RBT

COMMON NAME: N-BUTANOL  
CAS NUMBER: 71-36-3  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: 790.00 MG/KG ORL RAT  
LD50: 2680.00 MG/KG ORL MOU  
LD50: 3484.00 MG/KG ORL RBT  
LD50: 3400.00 MG/KG SKN RBT LC50: 8000.00 PPM/4HRIHL RAT

COMMON NAME: BENZENE  
CAS NUMBER: 71-43-2  
CARCINOGENICITY LISTED BY: NTP YES A IARC YES 1 OSHA YES ACGIH YES A2  
LD50: 930.00 MG/KG ORL RAT  
LD50: > 9.40 ML/KG SKN RBT

COMMON NAME: MINERAL SPIRITS  
CAS NUMBER: 8052-41-3  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: > 3.00 GM/KG SKN RBT  
LD50: > 5.00 GM/KG ORL RAT

## SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT IS MODERATELY TOXIC BY INGESTION. CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN.

NOTICE:           REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO LIVER, KIDNEY, CENTRAL NERVOUS SYSTEM, BLOOD.

CARCINOGENICITY:           NO CARCINOGENIC EFFECTS ARE ANTICIPATED

REPRODUCTIVE EFFECTS:   HIGH EXPOSURES TO XYLENE IN SOME ANIMAL STUDIES, OFTEN AT MATERNALLY TOXIC LEVELS, HAVE AFFECTED EMBRYO/FETAL DEVELOPMENT. THE SIGNIFICANCE OF THIS FINDING TO HUMANS IS NOT KNOWN.

MUTAGENICITY:           TRIETHYLENETETRAMINE HAS DEMONSTRATED WEAK MUTAGENIC ACTIVITY IN STANDARD IN VITRO TESTS, AND HAS CAUSED EMBRYO- FETAL TOXICITY AND FETAL MALFORMATIONS WHEN FED TO RATS. TRIETHYLENETETRAMINE DID NOT EXHIBIT CARCINOGENIC POTENTIAL IN LIFE-TIME MOUSE SKIN PAINTING STUDIES.

TERATOGENICITY:           NO TERATOGENIC EFFECTS ARE ANTICIPATED

## SECTION 12: ECOLOGICAL INFORMATION

NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE.

## SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:       DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. AVOID DISCHARGE TO NATURAL WATERS.

## SECTION 14: TRANSPORT INFORMATION

DOT:           PAINT RELATED MATERIAL, 3, UN1263, PGIII  
IMDG:         PAINT RELATED MATERIAL, CLASS 3, UN1263, PGIII, LIMITED QUANTITY  
IATA:         NOT AVAILABLE  
TDG:         NOT AVAILABLE

**SECTION 15: REGULATORY INFORMATION**

	SARA 302	SARA 313	CERCLA 302.4	HAZ AIR POLLUTANT	MARINE POLYNT
CAS NUMBER: 1330-20-7 COMMON NAME: XYLENE	NO	YES	YES	YES	NO
CAS NUMBER: 71-36-3 COMMON NAME: N-BUTANOL	NO	YES	YES	NO	NO
CAS NUMBER: 71-43-2 COMMON NAME: BENZENE	NO	YES	YES	YES	NO

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

**SECTION 16: OTHER INFORMATION**

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS MATERIAL. COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200.